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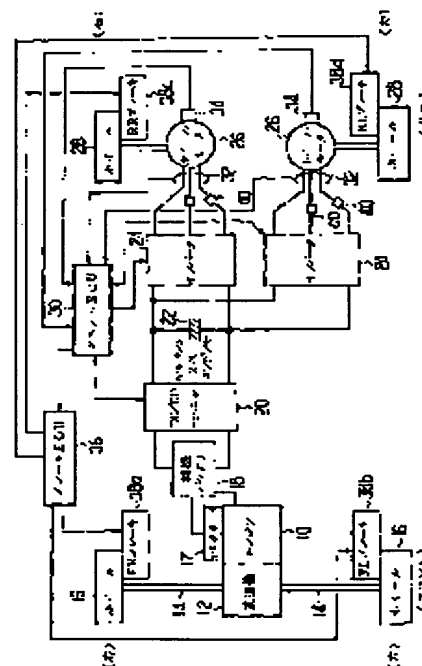
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(54) MOTOR SYSTEM FAILURE DETECTION AND FAILURE DETECTOR THEREOF, AND MOTOR SYSTEM EQUIPPED WITH FAILURE DETECTING FUNCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To detect the failure of a vehicle-propulsion motor system in a vehicle stopping condition.

SOLUTION: The stator of a wheel motor 26 is fixed on the vehicle body side, and a rotor is fixed on a rear wheel 28. A d-axis current under vector control is supplied to the wheel motor 26. A current sensor 32 detects the actual supplied current, and a resolver 34 detects the angle position of the rotor. If the system is normal, motor torque will not to be generated even if the d-axis current is supplied, and the position of the rotor should not be changed. A system ECU30, therefore decides that there is a failure of the system, if the position of the rotor is changed. Likewise, if the motor current fails to follow the d-axis current command is detected, the system is decided as being failed. The failure detection is conducted with front breaks 38a, 38b turned on and rear breaks 38c, 38d turned off.



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